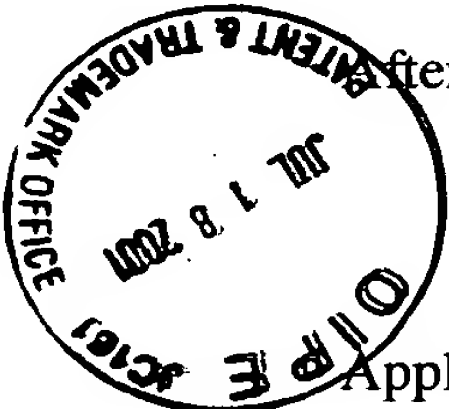


TM106 18 GAGCTTCGAGGGCCTTAT

1522 - 1505

TM109 18 CGAGCAACGCAGCGAGTA

870 - 853



After page 53, insert the printed Sequence Listing.

**REMARKS**

Applicants submit this Amendment to indicate the insertion point for the substitute Sequence Listing filed concurrently herewith. Applicants respectfully request examination on the merits of this application.

Receipt of the initial Office Action on the merits is awaited.

Respectfully submitted,

Stephen A. Bent  
Reg. No. 29,768

18 July 2001  
Date

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Versions with Markings to Show Changes Made

IN THE SPECIFICATION

Please amend the Specification as follows:



Please replace the paragraph 0028 with the following rewritten paragraph:

Figure 2 lists the experimentally derived peptide sequences of HAL (portion of SEQ ID NO: 3 - n-terminal - and SEQ ID NS 32-33 - internal).

Please replace paragraphs 0039, 0040 and 0041 with the following rewritten paragraphs, respectively:

Figure 13 (SEQ ID NOS 34-42, respectively, in order of appearance) illustrates a first peptide sequence pileup of HAL from various bacteria, including *Corynebacteriaceae*, *B. subtilis*, *S. griseus*, *P. putida*.

Figure 14 (SEQ ID NOS 43-64, respectively, in order of appearance) is a second peptide sequence pileup of HAL from various bacteria, including *Corynebacteriaceae*, *S. griseus*, and *D. radiodurans*

Figure 15 (SEQ ID NOS 65-66, respectively, in order of appearance) is a comparison between the amino acid sequence of *S. griseus* ("STRG") and *Corynebacteriaceae* ("HAL"); positions of an amino acid identity are delineated by "\*".

Please replace paragraph 00127 with the following rewritten paragraph:

Two of the resulting probes (TM63 and TM74), shown in Table 1, below, were labeled, mixed, and used to screen the above genomic library. Oligos were labeled with  $\gamma^{32}\text{P}$ ATP using T4 polynucleotide kinase as described (Ausubel, *et al*, eds, 1994. "Current Protocols in Molecular Biology," John Wiley and Sons, Inc.,) and cleaned up using ElutipS (Schleicher & Schuell). Hybridization of duplicate filters was carried out in a Bellco

hybridization oven at 37°C using the SSPE protocol as described (Ausubel, *et al.*, eds, "Current Protocols in Molecular Biology," John Wiley and Sons, Inc., 1994). Filters were washed in 6X SSC with 0.5%SDS (Ausubel, *et al.*, eds, "Current Protocols in Molecular Biology," John Wiley and Sons, Inc., 1994) at 37°C. Filters were then washed at successively higher temperatures in 3 M TMAC (Ausubel, *et al.*, eds, "Current Protocols in Molecular Biology," John Wiley and Sons, Inc., 1994) until very little radioactivity could be detected with a survey meter (generally 45 - 55°C). Upon exposure to X-Ray film (Kodak X-Omat), colonies which were evident on both replicate filters were picked with a wooden toothpick and transferred to a fresh nylon filter overlaid onto an LB/ampicillin plate. This procedure was repeated until a homogeneous population was achieved.

**Table 1:** oligonucleotides (SEQ ID NOS 1-27, respectively, in order of appearance) with DNA sequence and approximate coordinates relative to the ATG start codon.

Name	Length	Sequence (5' to 3')	Coordinates
TM63	30	CGCGTTCAGGACGCATACTCCGTTCGCTGC	838-867
TM74	24	GCCCATGGAAACGTGGTCTTCCTG	1370 - 1393
TM85	21	ATCATCATGCCCCGAGTCCACA	1156 - 1176
TM87	21	GCCATCAGGAAGACCACGTTT	990 - 971
TM89	20	ATGCAGGAAGACCACGTTTC	1246 - 1265
TM91	21	ATCGAGGTCCGCCAATGCCAT	648 - 628
TM92	18	ACCGGAGCAGCCCAGTGA	441 - 424
TM93	20	TGCTTGAAGTATTGCGCCAG	1403 - 1422
TM94	18	GATCCTCGGGTGCGATGT	226 - 209
TM95	18	ATGCTGATCGGGCTTCGT	92 - 74
TM96	27	ATTGATT <u>CATATG</u> GCTTCGCTCCTC	-11 - +16
TM97	28	ATCTT <u>GGATCC</u> GAACATGGTGCGTTGCA	Beyond C-Terminus

TM98	18	AGCACCCAGAT CGATGCAC	128 - 145
TM99	18	TGGCATGGGTGAACCGGT	267 - 284
TM101	18	ATCAGCGTTGAAGCCCAG	682 – 699
TM103	18	ACGTGCTGGACTTCCTTG	1019 - 1036
TM105	18	GTGCATAAGGCCCTCGAA	1501 - 1518
TM106	18	GAGCTTCGAGGGCCTTAT	1522 - 1505
TM109	18	CGAGCAACGCAGCGAGTA	870 – 853